

1 **In the claims:**

2 Cancel claims 1-9 and 20-36.

3 Claims 14-16 are withdrawn.

4

Version with Markings to Show Changes Made

1 - 9 (Cancelled)

10 (Original) A tunable optical filter comprising: an expander having an expander extent, a coefficient of expansion, a first attachment, and a second attachment, said attachments separated by an attachment extent; an optical fiber having a grating, said grating having a grating extent; said expander positioned around said optical fiber, and said optical fiber grating extent is included in said extent of said attachment extents; said expander bonded to said optical fiber at said first attachment and said second attachment; said expander responsive to a control.

11(Original) The tunable filter of claim 10 where said control is a varying magnetic field.

12(Original) The tunable filter of claim 11 where said tunable filter includes a magnetic field generator producing a magnetic field which is coupled to said expander.

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2           13(Original) The tunable filter of claim 12 where said  
3 magnetic field generator comprises an coil wound about said  
4 expander.

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6           14-16 (Withdrawn)

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8           17(Original) The tunable filter of claim 10 where said  
9 filter is sensing a magnetic field, and said control  
10 comprises the magnetic field to be sensed.

11

12           18(Original) The tunable filter of claim 10 where said  
13 expander is made from  $Tb_{0.3} Dy_{0.7} Fe_{1.9}$ .

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15           19(Original) The tunable filter of claim 10 where said  
16 expander is made from zinc.

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18           20-36 (Cancelled)

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